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PTO/SB/05 (4/98)
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No.

First Inventor or Application Identifier

REUSEN BAHAR

Title

METHOD AND SYSTEM FOR PREVENTION OF PIRACY OF A GIVEN SOFTWARE APPLICATION VIA A COMMUNICATIONS NETWORK

Express Mail Label No.

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- ☒ * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
- ☒ Specification [Total Pages 28]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the invention
 - Brief Summary of the invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 2]
- Oath or Declaration [Total Pages]
 - ☒ Newly executed (original or copy)
 - ☐ Copy from a prior application (37 C.F.R. § 1.63(d))
(for continuation/divisional with Box 16 completed)
 - ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

* NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

ADDRESS TO: Assistant Commissioner for Patents
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- ☐ Microfiche Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - ☐ Computer Readable Copy
 - ☐ Paper Copy (identical to computer copy)
 - ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- ☒ Assignment Papers (cover sheet & document(s))
- ☐ 37 C.F.R. § 3.73(b) Statement of Power of Attorney (when there is an assignee)
- ☐ English Translation Document (if applicable)
- ☐ Information Disclosure Statement (IDS)/PTO-1449
- ☐ Preliminary Amendment
- ☐ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
- ☒ * Small Entity Statement(s) filed in prior application, Status still proper and desired (PTO/SB/09-12)
- ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
- ☐ Other:

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No. _____
Prior application information. Examiner _____ Group / Art Unit. _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

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Signature	<i>Reusen Bahar</i>	Date	6/13/2000

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**STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) & 1.27(b))--INDEPENDENT INVENTOR**

Docket Number (Optional)

Applicant, Patentee, or Identifier: REUBEN BAHAR

Application or Patent No.: _____

Filed or Issued: _____

Title: METHOD AND SYSTEM FOR PREVENTION OF PIRACY OF A GIVEN SOFTWARE APPLICATION
VIA A COMMUNICATIONS NETWORK.

As a below named inventor, I hereby state that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the Patent and Trademark Office described in:

- ☒ the specification filed herewith with title as listed above.
☐ the application identified above.
☐ the patent identified above.

I have not assigned, granted, conveyed, or licensed, and am under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

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Separate statements are required from each named person, concern, or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

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NAME OF INVENTOR

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Signature of inventor

Signature of inventor

Signature of inventor

6/13/2000
Date

Date

Date

1 illegal copies of a software application and distributing them in mass
2 quantities for drastically reduced prices.

3 Due to the availability and low cost of sophisticated computer
4 equipment such as the CD Write / Re-Write drive, software piracy has
5 become a much greater concern over the current years. Today, virtually
6 everyone can get access to such equipment and distribute CD based copies
7 of software applications to whomever they please. Mass distribution of
8 pirated software not only deprives the software manufacturer of their
9 deserved earnings, but also allows other software pirates to pirate
10 unlicensed copies of that application and propound the damage
11 exponentially. As such, piracy has often resulted in inflated software
12 prices and irreparable damage to software companies.

13 In efforts to combat the problems of software piracy, many software
14 companies have enabled various preventative measures. Some of these
15 include software access codes, activation plugs (i.e. memo hasp),
16 registration, and even costly technical support services. Although
17 somewhat effective, these measures have often been defeated with relative
18 ease and little or no expense. For example, software access codes which
19 must be entered to gain access to the software, are disclosed with the
20 software package and are thus, easily copied and distributed to
21 unlicensed users. Activation plugs, such as the ones which attach to the
22 PC's parallel port, have also been easily duplicated by various
23 manufacturers who illegally sell them on the black market. Furthermore,
24 while registration of the software would inform the manufacturer of all
25 users (licensed and unlicensed), pirates rarely do it given the absence
26 of a compelling motivation to do so. Lastly, technical support groups

1 are likewise, rarely used by pirators given their reluctance to disclose
2 their illegal use of the software. As shown by these and other
3 ineffective measures, it would be advantageous for a software
4 manufacturer to control the functionality of a given software application
5 in relation to each of its identified users.

7 BRIEF SUMMARY OF THE INVENTION

8 It is the object of the present invention to provide a reliable and
9 effective method and system for preventing piracy of a given software
10 application over a communications network, whereby the software
11 application will not function unless activated by a remote service
12 provider.

13 It is further the object of the present invention to provide a
14 method and system for identifying each separate user of a given software
15 application who installs and intends to effectively utilize the given
16 software application.

17 It is further the object of the present invention to provide a
18 method and system for associating user data to archived data accessible
19 by the remote service provider, in order to determine if the user is a
20 pirator of the software application.

21 The present invention is for a method and system for preventing
22 piracy of individual software applications. A remote service system,
23 controlled by a remote service provider, storably receives user data that
24 is transmitted by a user of a given software application. Upon receiving
25 the user data, the remote service system associates it to stored archive
26 data which is accessible to the remote service provider. If it is

1 determined that the user is not a pirator of the software, the remote
2 service system will transmit service data which will activate the
3 software and allow the user to utilize its full functionality. In this
4 manner, the remote service provider can limit software piracy as only
5 legitimate users of the software will be given the service data needed to
6 activate the software.

8 BRIEF DESCRIPTION OF THE DRAWINGS

9 FIG. 1 is an overview diagram pictorially illustrating the flow of
10 information that occurs between a user of a given software application
11 and the remote service system in the method and system for prevention of
12 software piracy according to the present invention.

13 FIG. 2 is a block flowchart of the information flow that occurs in
14 the method and system for prevention of software piracy according to the
15 present invention.

17 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

18 In reference now to the drawings, FIGS. 1 and 2 show the information
19 flow that occurs in a method and system (hereinafter "method"), indicated
20 at reference character 100 in FIG. 1, for prevention of piracy of a given
21 software application via a communications network, such as the Internet
22 8. Both FIGS. 1 and 2 illustrate the process by which a user would
23 attempt to activate a given software application.

24 As shown in FIG. 1, the user 1 successfully installs a given
25 software application 5 (hereinafter "software"), on the data storage
26 element 4 of their user system 2. The user system 2 is generally defined

as the user's computer terminal, which typically consists of a central processing unit (CPU) (not shown), data storage element 4, element for storablely receiving transmitted data 3, element for transmitting data 6, and a monitor and keyboard. While the software 5 may utilize various anti-piracy measures, two, which will later be discussed in detail, are especially worth noting in relation to this invention. The first measure is a program code sequence that identifies the specific software 5 (hereinafter "identification code"), while the second is an additional program code sequence that would be needed to activate the software 5 (hereinafter "activation code"). It is preferred that transmission of both of these code sequences, between the user 1 and remote service system 9, would be accomplished over the Internet 8. As used in this invention, a user can be an individual entity or collaborate entity, such as a business, family, or even friends, who legitimately acquired a license and/or right to use the given software 5. Furthermore, the remote service system 9 can be the software manufacturer or an independent company, working in conjunction with the software manufacturer, which will operate to prevent software piracy as noted in this invention.

Upon an initial attempt to access the installed software 5, the user 1 will be informed that the software 5 will require online activation before it can be operational. Online activation will render the given software 5 operational, subject to receiving the activation code from the remote service system 9. This requires that the software 5 be designed wherein it is either partially or completely dysfunctional prior to receiving the activation code, as will be discussed below. By

1 connecting to the remote service system 9 through the Internet 8, a user,
2 who is not pirating the software 5, will be able to have the software 5
3 activated online. Although the Internet 8 is used exclusively when
4 referencing a communications network, the present invention is intended
5 to include all forms of communications network environments known to one
6 skilled in the relevant art. Thus, method 100 is equally applicable to
7 all interconnected computer systems capable of transmitting and receiving
8 data, preferably digital data, which allow users of the network to
9 communicate. In this regard, a communications network includes, but is
10 not limited to, all telecommunications networks such as the Internet,
11 i.e. the World Wide Web and BBS systems, hardwire telephony, wireless
12 networks including cellular and PCS systems, satellite networks, etc.
13 Furthermore, communications networks include localized and regional
14 networks such as intranets and local area network (LAN) systems which
15 interconnect a relatively few number of user systems or terminals,
16 typically by means of a centralized server.

17 Once the user 1 establishes an online connection to the remote
18 service provider 9, they will enter and transmit user data 7, by element
19 for transmitting user data 6, to the remote service system 9 over the
20 internet 8. The user data 7 would subsequently, be received by the
21 remote service system 9 via element for storably receiving user data 10,
22 and stored in the data storage element 12 of the remote service system 9.
23 Although the transfer of user data 7 to the remote service system 9 would
24 preferably be initiated by the user 1, this need not always be the case.
25 Once the user 1 connects to the remote service system 9 via the

Internet 8, the user data 7 may be automatically detected by element for detecting user data 11 of the remote service system 9. In this case, the detected user data 7 will likewise be received by the remote service system 9 via element for storably receiving user data 10, and subsequently stored by the data storage element 12 of the remote service system 9. It is notable that the term user data is defined and understood herein and in all the claims to mean any information originating from and/or available to the user of the software 5. This includes, but is not limited to personal identification information such as user name, address, location, phone number, etc. Additionally, user data 7 may consist of any information relating to the software 5 which identifies and distinguishes it from other "same type" or distinct software applications. This can include, but is not limited to information such as an "identification code" (as noted earlier), a product serial number, name, and/or version number.

It is worthy to mention that the software 5 should preferably contain an identification code, which is a program code sequence comprised of alphanumeric characters, that would serve to identify each individual software application. Given its function, the identification code may also be synonymous to a product's distinct serial number. Preferably, the identification code will be unique to each software application sold and disclosed to both the user 1 and remote service system 9. The advantage of a unique identification code is that it will allow the remote service system 9 to recognize and keep track of each software application sold. Although the identification code could consist of an elongated alphanumeric code sequence, such as a "program

1 file(s)", it is preferred that it consist of a short code sequence of
2 alphanumeric characters, e.g. XJR-U89K-RJ2P1. A short identification
3 code sequence will allow the software 5 to be simply and easily
4 identified. It should finally be noted that user data 7 may also refer
5 to information identifying the user system 2 such as serial and model
6 number as well as the type, function, and performance of the various
7 system hardware components.

8 After receiving and storing the user data 7, the remote service
9 system 9 will process the user data 7 via element for processing user
10 data 13. Element for processing user data 13 may be, but is not limited
11 to software, hardware device(s), or a combination of these two, which
12 would allow for processing of the user data, as noted in this invention.
13 Additionally, element for processing user data 13 may likewise include
14 the remote service system's personnel staff who would be able to manually
15 initiate processing of the user data, as noted in this invention.

16 Processing of the user data may include, but is not limited to an
17 "archiving" event wherein a wide range of information that is received by
18 or made available to the remote service system 9 is sorted, arranged, and
19 organized into retrievable data files. Archived data stored in the data
20 storage element 12 of the remote service system 9 may consist of, but is
21 not limited to, a mass assortment of receivably stored user data (e.g.
22 "identification codes"), service data (discussed below), and promotions,
23 etc. Here, the archived data would relate to distinct users, various
24 software applications, and potential advertisements; all of which may
25 exist independently of one another. Second, archived data may also
26 consist of information indicating the amount of user online activation

1 attempts recorded for each identified software 5. Finally, archived data
2 would include all other information that would be of use to the remote
3 service system 9 in preventing piracy of a given software application, as
4 noted in this invention.

5 Processing of the user data 7 may also consist of an "associating"
6 event wherein the currently transmitted user data 7 is compared to
7 archived data contained in the data storage element 12 of the remote
8 service system 9. It is important to note that "associating" the
9 currently transmitted user data 7 to archived data will allow the remote
10 service system 9 to determine if the user 7 is attempting to activate a
11 pirated version of the software 5. Here, the "product identification
12 code" of software 5, along with other user data 7 currently being
13 received from the user system 2, will be compared to existing archived
14 data. If the archived data informs that the software 5 is legally
15 registered to a completely distinct user, such may indicate that the user
16 currently online is trying to activate a pirated version of the
17 software 5. This result will occur if the archived data referencing the
18 software 5 does not match the user data 7 currently being transmitted by
19 the user system 2, and/or if the archived data indicates that there has
20 been repeated and numerous attempts to activate the same software 5.

21 Multiple online activation attempts of the same software 5,
22 regardless if such attempts are by distinct or the same users would
23 naturally indicate that the software 5 was pirated and distributed to a
24 multitude of different users. In this situation, the remote service
25 provider may contact the registered user(s) to investigate into potential
26 piracy. Additionally, the remote service system 9 may blacklist the

1 specific software 5, as referenced by its identification code.
2 Blacklisting of a given software application would mean that the
3 identified software would be prohibited from receiving any future
4 activation codes from the remote service system 9. For all intensive
5 purposes, such an event would render the identified software void and
6 permanently dysfunctional. This is because the software, as sold to the
7 user, would need the activation code in order to function. Absent this
8 code, the identified software would be inoperative and no longer subject
9 to piracy.

10 When it is determined by the remote service system 9 that the user 2
11 is not a pirator of the software 5, service data, such as the activation
12 code 17, may be transmitted to the user system 2. Here, the software 5
13 and/or the user system 2 would be responsive to the service data. As
14 used in this invention, service data is defined and understood herein and
15 in all the claims to mean any data that the remote service system 9 may
16 legitimately transmit to the user system 2 during the online activation
17 process for the software 5. Service data 16 may include, but is not
18 limited to instructions, promotional messages, and an activation code(s).
19 The instructions may guide the user 1 through the steps for activating
20 the software 5, while a promotional message program code sequence may
21 offer and display a particular product or service for sale. The
22 activation code 17, as noted earlier, is a program code sequence that
23 will serve to activate each individual software application, which absent
24 the activation code 17, would be dysfunctional. The activation code may
25 either be unique to each individual software 5 sold (hereinafter "unique
26 activation code") or unique to a group of software (hereinafter "common

1 activation code") that relate to a common software program, manufacturer,
2 brand name, or version, etc. Of the two, the preferred embodiment would
3 be the "unique activation code" which is unique to each individual
4 software 5 sold.

5 One of the main advantages of using a unique activation code is the
6 drastic curtailment of software piracy. Here, each software 5 will be
7 designed wherein it is responsive to a distinct activation code. As
8 such, an attempt to pirate distinct software applications would entail a
9 tedious and time consuming task requiring the hacker to uncover the
10 activation code of each individual software. Furthermore, a unique
11 activation code will not allow for the activation of any "general" copy
12 of the software which would otherwise be responsive to a common
13 activation code. As an alternative to a unique activation code, a common
14 activation code would activate all "same type" software applications.
15 Developing "same type" software to be responsive to a common activation
16 code may be advantageous given the potential for less confusion and
17 troubleshooting errors which could arise during the software
18 manufacturing and online activation stages.

19 It is noteworthy to mention that similar to the identification code,
20 the activation code may likewise consist of either a long or short
21 program code sequence. As noted earlier, a short code sequence would
22 consist of a concise sequence of alphanumeric characters,
23 e.g. HT3-GY2K-WR0P, while a long code sequence would consist of a small
24 or large arrangement of alphanumeric data that result in a "program
25 file(s)". Use of a long code sequence would be the preferred method of
26 constructing the activation code. This is because a long code sequence

1 (i.e. a program file) would be much harder to replicate than a short code
2 sequence. Here, the software 5 may be developed wherein it is missing
3 program files necessary for it to function. Only after these undisclosed
4 program files (e.g. the activation code) are transmitted from the remote
5 service system 9 to the user system 2, will the software 5 be functional.

6 An activated software application will be fully operational and
7 allow the user complete access to it. Although it need not be so, it is
8 preferred that the activation code 17 remain undisclosed to the user 2.
9 Here, the need for the activation code will compel the user 2 to register
10 the software 5 online with the remote service system 9. Furthermore, and
11 more importantly, having the activation code 17 only known to the remote
12 service provider and its business affiliates (such as the software
13 manufacturer) will prevent piracy of the software 5. This is because
14 users who wish to pirate the software 5 will not be able to replicate the
15 activation code and distribute it along with a medium (e.g. CD Rom)
16 containing a copy of the software 5. Given this, it is additionally
17 preferred that the activation code 17 be designed wherein it is immune to
18 discovery by computer hackers and sophisticated programmers. The
19 objective here is to prevent these individuals from "breaking in" to the
20 software 5 and either re-writing or discovering the undisclosed
21 activation code. As noted earlier, this may require constructing the
22 activation code as a long code sequence which results in a program
23 file(s). Additionally, other measures may include code encryption as
24 well as any other programming methods known to those skilled in the
25 relevant technical art.

26 Before a software 5 can be activated, the appropriate service data

1 must be processed and transmitted to the user system 2. Processing of
2 the service data 16 would require that it be either extracted or
3 generated from the archived data stored on the data storage element 12 of
4 the remote service system 9. Extraction or generation of the service
5 data 16 will be accomplished by element for processing service data 14,
6 as referenced in Method 100 of FIG. 1. Element for processing service
7 data 14 may be, but is not limited to software, hardware device(s), or a
8 combination of the two, which would allow for processing of the service
9 data, as noted in this invention. Additionally, element for processing
10 service data 16 may likewise include the remote service system's
11 personnel staff who would be able to manually initiate processing of the
12 service data 16, as noted in this invention.

13 Extraction of service data 16 from the archived data entails a
14 selection process wherein only the appropriate and necessary service data
15 is singled out from the total archived data and made available for
16 transmission to the user system 2. Extraction of the service data is
17 necessary given the multitude of distinct service data information that
18 may be stored and archived by the remote service system 9. For example,
19 the activation code "ABC-123", contained in the archived data, would only
20 be extracted when a user 1 who possesses the specific software
21 referencing the identification code "ABC-123" attempts to activate it
22 online. Stated differently, service data containing an activation code
23 relating to Microsoft Word 2000 would not be extracted for a user trying
24 to activate a Norton Anti-virus software application. The reason for
25 this is that different users will require different service data,
26 depending on the requirements of the specific software that they are

1 attempting to activate.

2 Alternatively, the second embodiment for processing the service
3 data 16 pertains to an event which causes the service data 16 to be
4 generated. This event entails a process wherein pre-existing archive
5 data may be formulated into the appropriate service data upon request
6 from the remote service system 9. Generation of service data can be
7 advantageous as this method will permit the remote service system 9 to
8 manipulate various data components, existing in the archived data, in
9 order to formulate the service data 16. For example, the remote service
10 system 9 may combine personal identification information belonging to the
11 user 1 with promotional data to formulate a personalized advertisement
12 directed at the user 1. Additionally, the remote service system 9 could
13 combine user data (such as the directory file location of the user system
14 2 that contains the installed software 5) with the appropriate activation
15 code, to formulate a self executing program file which, upon an access
16 event, would automatically install the service data 16 into the correct
17 file location of the user system 2. Here, formulation of the service
18 data may include, but is not limited to a series of calculations,
19 combinations, and/or sorting out of the appropriate archived data.
20 Generation of the service data may occur at any time prior to or after
21 the remote service system 9 determines that the user 1 is not a pirator
22 of software 5 and is eligible to receive the service data 16.

23 Once the service data 16 is extracted or generated via element for
24 processing service data 14, the remote service system 9 will transmit it
25 to the user system 2. Transmission of the service data 16 may be
26 accomplished in a number of ways. The first two methods involve an event

1 wherein the service data 16 is uploaded into the user system 2, while the
2 third method requires the user 1 to download the service data 16 into
3 their user system 2. In the first embodiment for uploading the service
4 data 16, the remote service system 9 initiates an uploading event in
5 which the service data is automatically transferred from the remote
6 service system 9 to the user system 2 wherein it is storablely received via
7 element for storablely receiving 3 service data 16. In doing this, the
8 remote service system 9 may find it necessary to determine the
9 appropriate file directory location of the user system 2 in which to
10 upload the service data. Determination of this location may be
11 accomplished by, but is not limited to user 1 disclosure, as transmitted
12 by the user (e.g. user data), or via an interactive search of the file
13 directory of user system 2.

14 In the second embodiment for uploading of the service data 16, the
15 remote service system manually transmits the service data 16 to the user
16 system 2. Manual transmission of the service data 16 would allow remote
17 service system personnel to decide when the transfer sequence should be
18 initiated. Furthermore, manual transmission would enable such personnel
19 to manually enter and transmit needed service data 16 which may not have
20 been processed by the element for processing service data 14 of the
21 remote service system 9. Finally, in the third method for transmitting,
22 the service data 16 may be made available to the user 1 for them to
23 download into their user system 2. Here, the remote service system 9
24 generates the archived data 16 into a file that can be downloaded by the
25 user 1. The file would contain service data and possibly some elements
26 of user data. It is preferred (as discussed earlier) that the file

1 contain a self-executing installation program that is triggered upon an
2 access event by the user. For example, as a result of successful
3 downloading and accessing of the file, the service data 16 will
4 automatically be installed into the appropriate file directory of the
5 user system 2.

6 Following successful upload or installation of the service data 16
7 (such as the activation code 17) into the user system 2, the software 5
8 will gain full functionality. Complete activation of the software 5 will
9 allow the user 1 to freely utilize it to its full potential. Preferably,
10 the user 1 will never need to go through the online activation process
11 (as mentioned herein) again unless they attempt to install the software 5
12 on another user system or re-install it on their current user system 2.

13 Although many different scenarios can arise during the online
14 activation process of a given software 5, FIG. 2 illustrates, in block
15 diagram form, one possible "real time" cycle run of the present
16 invention. Starting from block 18, the user 1 successfully installs a
17 given software application on their user system 2, at block 19. Upon an
18 initial access event of the software 5, as shown at block 20, the
19 software 5, at block 21, will inform the user 1 that online activation is
20 required in order for it to function. If the user 1 decides to register
21 the software 5, they must connect online to the appropriate remote
22 service system 9, as shown at block 22. At this point, the remote
23 service system 9 may request from the user 1 that they enter and transmit
24 user data 7 to the remote service system 9, block 23. In addition to
25 this, the remote service system 9 may also attempt to detect any user
26 data 7 that can be detected by virtue of the online connection between

1 the user system 2 and remote service system 9, block 24. If the
2 appropriate and necessary user data 7 is entered and transmitted by the
3 user 1, block 25, or detected by the remote service system 9, block 26,
4 then it will be stored and processed by the remotes service system 9 as
5 indicated at block 27. It should be noted that where the user 1 fails to
6 provide and transmit the appropriate and necessary user data 7, and/or
7 the remote service system 9 is unable to detect the appropriate and
8 necessary user data 7, the cycle will repeat and be taken back to
9 block 23.

10 The processing of the user data 7 will allow the remote service
11 system 9 to determine if the user is a pirator of the software 5. If the
12 remote service system 9 determines that the user 1 is not a pirator, at
13 block 28, service data 16 will be processed, block 29. At this point,
14 the remote service system 9 will transmit the service data 16 to the user
15 system 2, at block 30. Transmission may be accomplished via uploading or
16 downloading methods as described earlier. After the service data 16 is
17 storably received by the user system 2, block 31, the software 5 will be
18 active and fully operational subject to successful activation by the
19 service data 16, block 32. In the event that the service data 16 was not
20 properly received by the user system 2, or effective in activating the
21 software 5, the cycle will repeat, starting from block 18.

22 Finally, it is noteworthy to mention that in the event that the
23 remote service provider determines that the user 1 is pirating the
24 software 5, it may refuse to transmit the service data 16, as shown by
25 block 33. Additionally, it may investigate into the possibility of
26 piracy, at block 34, as well as blacklist the identified software 5,

1 at block 35.

2 The program code sequence and all other technical aspects required
3 by this invention are all conventional and known to those skilled in the
4 art and need not be described in detail herein. Furthermore, the term
5 "element", as stated in the specification and all the claims herein, may
6 be construed in the plural tense as would be necessary in regards to each
7 noted reference made.

8 The present embodiments of this invention are thus to be considered
9 in all respects as illustrative and not restrictive; the scope of the
10 invention being indicated by the appended claims rather than by the
11 foregoing description. All changes which come within the meaning and
12 range of equivalency of the claims are intended to be embraced therein.

I CLAIM:

1. A method of preventing piracy of a given software application via a communications network, said method comprising the steps of:
 - storably receiving user data on data storage element of a remote service system via element, of said remote service system, for storably receiving said user data, said remote service system connected to said communications network and designated to receive said user data;
 - associating said user data to archived data of said remote service system via element, of said remote service system, for processing user data, wherein said association event is initiated to determine whether said user is pirating said software application;
 - selectively transmitting service data to user system via element, of said remote service system, for transmitting said service data when said remote service system determines that said service data should be transmitted, said user system connected to said communications network and designated to storably receive said service data.

1 2. The method as in Claim 1,

2 wherein said user data is transmitted by said user to
3 said remote service system via element, of said user system,
4 for transmitting user data, said user system connected to said
5 communications network and designated to transmit said user
6 data.

7 3. The method as in Claim 2,

8 wherein said user data comprises of at least one program
9 code sequence that identifies said software application
10 stored on data storage element of said user system.

11 4. The method as in Claim 2,

12 wherein said user data includes identity information
13 relating to said user of said software application.

14 5. The method as in Claim 2,

15 wherein said user data includes product information
16 relating to said software application stored on said
17 data storage element of said user system.

18 6. The method as in Claim 2,

19 wherein said user data includes system hardware
20 information relating to said user system.

1 7. The method as in Claim 1,
2 wherein said user data is detected by said remote
3 service system via element, of said remote service system, for
4 detecting said user data, said remote service system
5 connected to said communications network and designated
6 to detect said user data.

7 8. The method as in Claim 7,
8 wherein said user data comprises of at least one program
9 code sequence that identifies said software application stored
10 on said data storage element of said user system.

11 9. The method as in Claim 7,
12 wherein said user data includes identity information
13 relating to said user of said software application.

14 10. The method as in Claim 7,
15 wherein said user data includes product information
16 relating to said software application stored on said data
17 storage element of said user system.

18 11. The method as in Claim 7,
19 wherein said user data includes system hardware
20 information relating to said user system.

1 17. The method as in Claim 15,

2 wherein said service data includes at least one program
3 code sequence that results in a promotional message that may be
4 displayed to said user of said user system.

5 18. The method as in Claim 15,

6 wherein said service data includes said user data stored on
7 said data storage element of said remote service system.

8 19. The method as in Claim 1,

9 wherein the step of transmitting said service data is
10 an uploading event in which said service data is automatically
11 transferred from said remote service system and storably
12 received by said user system via element, of said user system,
13 for storably receiving said service data.

14 20. The method as in Claim 1,

15 wherein the step of transmitting said service data
16 is an uploading event in which said service data is
17 manually transferred from said remote service system and
18 storably received by said user system via element, of said user
19 system, for storably receiving said service data.
20

1 21. The method as in Claim 1,
2 wherein the step of transmitting said service data
3 is a downloading event in which said service data is made
4 available to said user from said remote service system, said
5 user being able to download said service data into said user
6 system via element, of said user system, for storably receiving
7 said service data.

8 22. The method as in Claim 1,
9 wherein, said software application includes a
10 program code sequence that identifies said software
11 application stored on said data storage element of said
12 user system, said software application additionally being
13 responsive to a second program code sequence that
14 activates said software application, and which is transmitted
15 to said user system via said communications network.

1 23. A system for preventing piracy of a given software
2 application via a communications network, said system
3 comprising:

4 a user system connected to a communications
5 network and designated by a user to transmit user
6 data and storablely receive service data, said user system
7 including computer processor element, data storage element for
8 storing data, element for transmitting user data, and element
9 for storablely receiving said service data.

10 a remote service system connected to said
11 communications network and designated by the remote
12 service provider to storablely receive said user data and
13 selectively transmit said service data, said remote
14 service system including computer processor element, data
15 storage element for storing data, element for storablely receiving
16 said user data, element for detecting said user data, element
17 for processing said user data, element for processing said
18 service data, and element for transmitting said service data to
19 said user system.

20 24. The system as in Claim 23,

21 wherein said user data is detected by said remote
22 service system via element, of said remote service system, for
23 detecting said user data, said remote service system
24 connected to said communications network and designated to
25 detect said user data.

1 25. The system as in Claim 23,
2 wherein said service data is extracted from said
3 archived data by element for processing said service data.

4 26. The system as in Claim 23,
5 wherein said service data is generated from said
6 archived data by element for processing said service data.

7 27. The system as in Claim 23,
8 wherein the steps for transmitting said service data
9 is an uploading event in which said service data is automatically
10 transferred from said remote service system and storably received
11 by said user system via element, of said user system, for
12 storably receiving said service data.

13 28. The system as in Claim 23,
14 wherein the steps for transmitting said service data
15 is an uploading event in which said service data is manually
16 transferred from said remote service system and storably received
17 by said user system via element, of said user system, for
18 storably receiving said service data.

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1 29. The system as in Claim 23,
2 wherein the steps for transmitting said service data
3 is a downloading event in which said service data is made
4 available to said user from said remote service system, said user
5 being able to download said service data into said user system
6 via element, of said user system, for storably receiving said
7 service data.

8 30. The system as in Claim 23,
9 wherein said software application includes a program
10 code sequence that identifies said software application
11 stored on said data storage element of said user system,
12 said software application additionally being responsive to
13 a second program code sequence that activates said
14 software application, and which is transmitted to said
15 user system via a communications network.
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ABSTRACT

A method and system for prevention of piracy of a given software application via a communications network, such as the Internet. A given software application, installed on a user system, will not function until it is activated by a remote service provider. This will require the user to provide the remote service provider with user data, such as the user's personal identity information and the unique software identification code relating to the specific software. User data will then be compared to archived data in order to determine if the user is a pirator of the software. If not a pirator, the remote service provider may transmit undisclosed service data, such as a software activation code, to the user system. Once activated, the software will become fully operational and allow the user complete access to its functions. In this manner, piracy of a given software application can be prevented.

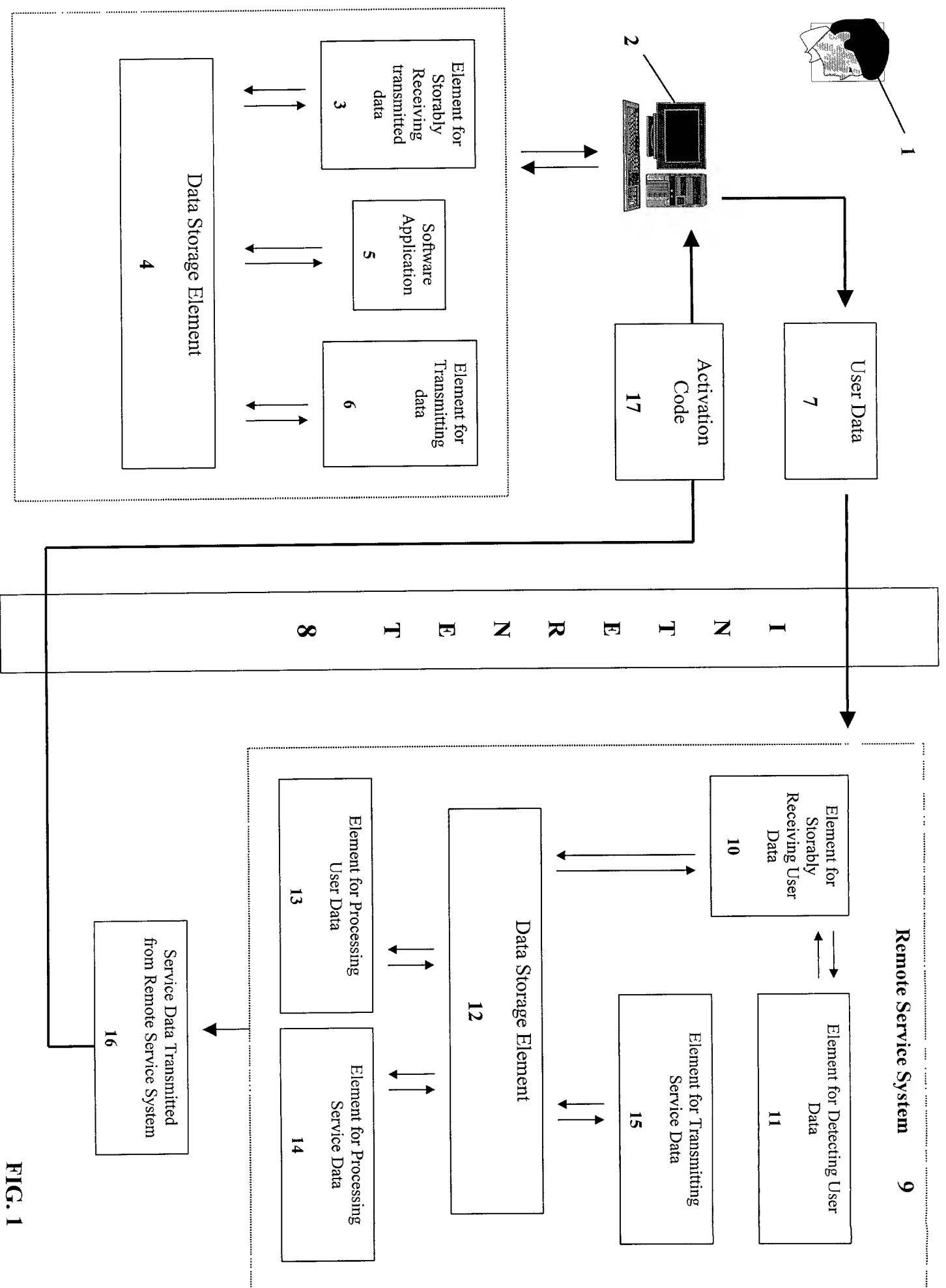


FIG. 1

Method 100

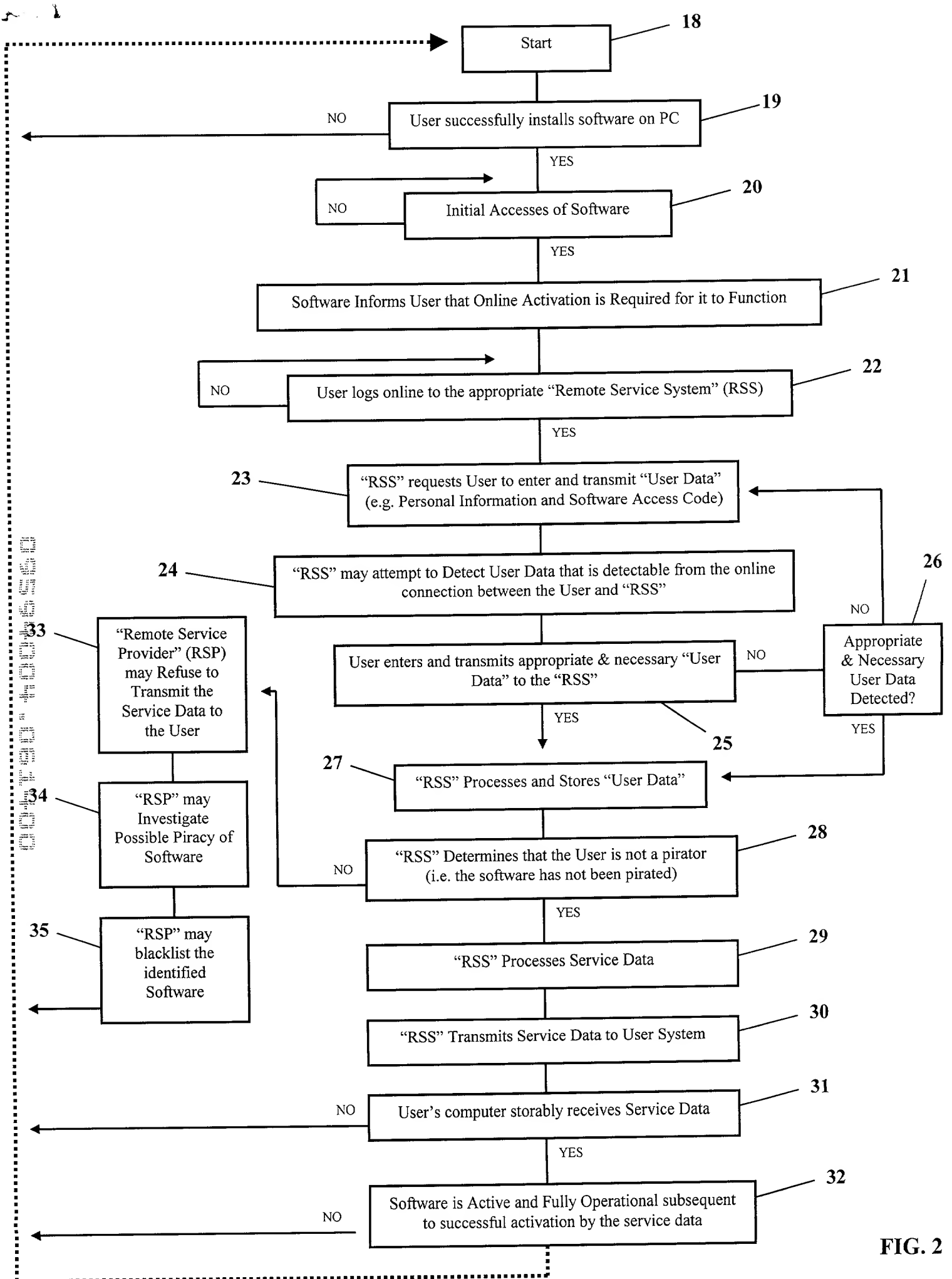


FIG. 2

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PATENT APPLICATION
(37 CFR 1.63)**

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Attorney Docket Number

First Named Inventor

REUBEN BAHAR

COMPLETE IF KNOWN

Application Number

/

Filing Date

Group Art Unit

Examiner Name

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND SYSTEM FOR PREVENTION OF PIRACY OF A
GIVEN SOFTWARE APPLICATION VIA A COMMUNICATIONS NETWORK

the specification of which

(Title of the Invention)

☒ is attached hereto
OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

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				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

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[Page 1 of 2]

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Name	Registration Number	Name	Registration Number
REUBEN BAHAR	(INVENTOR)		

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Name of Sole or First Inventor: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))	Family Name or Surname
REUBEN	BAHAR

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City	WEST HILLS	State	CA	ZIP	91307
				Country	USA

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